

# LOAD-MODULE

<b>File</b>	44
<b>Op-Sys</b>	OS/390
<b>Statement</b>	PROCESS
<b>Task</b>	Retrieves information on a load module residing on a specified dataset.

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## Common Fields for all Operating Systems

Dictionary Field Name	F/L	Mu	DE	Remarks
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N3		D	
NODE-NAME	A16		D	
FUNCTION	A8		D	
DSNAME	A54		D	
VOLSER	A6		D	Required if dataset is not cataloged.
MEMBER	A10		D	
PASSWORD	A8		D	
SEGMENT-LENGTH	B2		D	
BLOCK-TTR	B3		D	
BLOCK-OFFSET	B4		D	
CSECT-OFFSET	B4		D	
SEGMENT	A253		D	Relevant with FUNCTION=DATA.
ESD-NAME	A8		D	Relevant with FUNCTION=ESD.
ESD-TYPE	A2		D	Relevant with FUNCTION=ESD or VCON.
ESD-ADDRESS	B4		D	Relevant with FUNCTION=ESD.
ESD-LENGTH	N11		D	Relevant with FUNCTION=ESD.
ESD-AMODE	A3		D	Relevant with FUNCTION=ESD.
ESD-RMODE	A3		D	Relevant with FUNCTION=ESD.
ESD-LR-ID	N5		D	Relevant with FUNCTION=ESD.
ESD-ID	N5		D	Relevant with FUNCTION=ESD.
IN-CSECT	A8		D	Relevant with FUNCTION=VCON.
IDR-DATE	A8		D	Relevant with FUNCTION=IDR.
IDR-DATA	A40		D	Relevant with FUNCTION=IDR.
IDR-TYPE	A4		D	Relevant with FUNCTION=IDR.
MODULE-LENGTH	N7		D	Relevant with FUNCTION=ATTR.
MODULE-ATTRIBUTES	A80		D	Relevant with FUNCTION=ATTR.
MODULE-SSI	B4		D	Relevant with FUNCTION=ATTR.

## Relevant Error Codes

Code	Text	OS/390	VSE/ESA	BS2000/OSD
534	File is not a load library.	X		
580	Binder API :1: call, rc :2:, rsn :3:	X		
600	Unknown function.	X		
998	Member not found.	X		

## Field Descriptions

Field Name	Type/Length	Operating System
BLOCK-OFFSET	(B4)	

The offset of this segment in the physical block.

Field Name	Type/Length	Operating System
BLOCK-TTR	(B3)	

TTR value of the block which contains this segment.

Field Name	Type/Length	Operating System
CSET-OFFSET	(B4)	

The offset of this segment in the current CSECT.

Field Name	Type/Length	Operating System
ESD-ADDRESS	(B4)	

Relevant with FUNCTION=ESD. Address of the external symbol.

Field Name	Type/Length	Operating System
ESD-AMODE	(A3)	

Relevant with FUNCTION=ESD. The AMODE assigned to the CSECT.

Field Name	Type/Length	Operating System
ESD-ID	(N5)	

Relevant with FUNCTION=ESD. The ID of the external symbol.

Field Name	Type/Length	Operating System
ESD-LENGTH	(N11)	

Relevant with FUNCTION=ESD. Length of the external symbol.

Field Name	Type/Length	Operating System
ESD-LR-ID	(N5)	

Relevant with FUNCTION=ESD. The ID of the label reference (LR) symbol.

Field Name	Type/Length	Operating System
ESD-NAME	(A8)	

Relevant with FUNCTION=ESD. The external symbol name.

Field Name	Type/Length	Operating System
ESD-RMODE	(A3)	

Relevant with FUNCTION=ESD. The RMODE assigned to the CSECT.

Field Name	Type/Length	Operating System
ESD-TYPE	(A2)	

Relevant with FUNCTION=ESD or VCON. Possible values:

ESD	VCON
CM = Common. ER = External reference. LR = Label reference (i.e. Entry name). PC = Private code. PR = Pseudo reference. SD = Section definition (i.e. CSECT). WX = Weak external reference.	ER = External symbol is unresolved. SD = External symbol is resolved. WX = External symbol is unresolved (weak).

Field Name	Type/Length	Operating System
DSNAME	(A54)	

Fully qualified dataset name.

Field Name	Type/Length	Operating System
FUNCTION	(A8)	

Function to be performed. Possible options:

Option	Explanation
ATTR	Return module attributes.
DATA	Return data on CSECTs.
ESD	Return names of external symbols and other related information as it appears in the external symbol dictionary.
IDR	Return information on applied zaps and linkedit date/version.
VCON	Return information on external symbols as they appear in the relocation dictionary.

Field Name	Type/Length	Operating System
IDR-DATA	(A40)	

Relevant with FUNCTION=IDR. The IDR data.

Field Name	Type/Length	Operating System
IDR-DATE	(A8)	

Relevant with FUNCTION=IDR. The date of the zap/linkage in format DD/MM/YY.

Field Name	Type/Length	Operating System
IDR-TYPE	(A4)	

Relevant with FUNCTION=IDR. Possible types:

Type	Explanation
LANG	Data produced by the language translator to identify the compiler or assembler.
LINK	Linkage entry. The IDR-DATA field contains linkedit name followed by version.
USER	User data created by IDENTIFY statement. The IDR-DATA field contains data (max. 40 bytes).
ZAP	AMASPZAP entry. The IDR-DATA field contains IDRDATA (length 8).

Field Name	Type/Length	Operating System
IN-CSECT	(A8)	

Relevant with FUNCTION=VCON. Name of the CSECT in which the reference to the external symbol appears.

Field Name	Type/Length	Operating System
MEMBER	(A10)	

Member name.

Field Name	Type/Length	Operating System
MODULE-ATTRIBUTES	(A80)	

Relevant with FUNCTION=ATTR. The module's attributes in keyword format. The relevant keywords are separated by a blank. Possible keywords:

Keyword	Explanation
AUTH	APF authorized.
LOADONLY	Only loadable.
NOTEXEC	Not executable.
OVLY	Overlay.
REFR	Refreshable.
RENT	Reentrant.
REUS	Reusable.
SCTR	Scatter.
TEST	Test option (TSO).

Field Name	Type/Length	Operating System
MODULE-LENGTH	(N7)	

Relevant with FUNCTION=ATTR. The module's length in bytes.

Field Name	Type/Length	Operating System
MODULE-SSI	(B4)	

Relevant with FUNCTION=ATTR. The module's SSI data.

Field Name	Type/Length	Operating System
PASSWORD	(A8)	

Password for protected dataset.

Field Name	Type/Length	Operating System
SEGMENT	(A253)	

Relevant with FUNCTION=DATA. Contains the data segment with length SEGMENT-LENGTH.

Field Name	Type/Length	Operating System
SEGMENT-LENGTH	(A32)	

The length of the record segment to be returned. At the end of the block/CSECT/module, the segment may be smaller.

Field Name	Type/Length	Operating System
VOLSER	(A6)	

Volume serial number. Only required if the dataset is not cataloged.

